

Total No. of Questions – 10]
(2123)

[Total Pages : 2

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M.Sc. (Zoology) CBS IIIrd Semester Examination
MAMMALIAN NEUROBIOLOGY

Paper–MZOO-304

Time : Three Hours]

[Max. Marks : 40

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt *five* (5) questions in all with its subparts at same place. Draw well labelled diagram wherever necessary.

1. Discuss in detail :

✓ (i) Peripheral nervous system. (5)

(ii) Cerebrospinal fluid. (3)

2. Give a brief account of following :

(i) Histological characteristics and the functions of neuron. (5)

(ii) Neural circuit. (3)

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3. (i) Explain how neurons are arranged to form reflex arc. (5)
(ii) Discuss about glial cells in CNS. (3)
4. Which neurotransmitters are excitatory and which are inhibitory? How do they exert their effects? (8)
5. Explain in detail about molecular basis of learning. (8)
6. Explain the following in detail :
(i) CAT in brain imaging. (4)
(ii) Ion channels in potential generation. (4)
7. Discuss the following :
(i) MRI. (4)
(ii) Epilepsy. (4)
8. Give a detailed account of Parkinson's disease. (8)
9. Discuss the brain aging in detail and its effects. (8)
10. Give detailed account of structural organization of brain. (8)
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